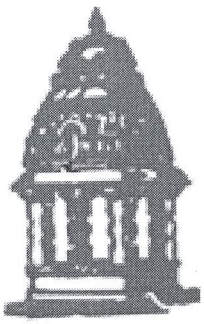
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst. Executive Engineer,
Byatarayanapura Sub division

Modified Estimate

Name of Work:- Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda Bommasandra), Vidyaranyapura Sub Division.

Est Cost:60.00 Lakhs

BRUHATH BENGALORE MAHANAGARA PALIKE BYATARAYANA PURA

Modified Estimate

Name of Work : Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda Bommasandra), Vidyaranyapura Sub Division.

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No.143/ Item No.19.1/ PWD SR 2018-19)**								
	Desilt								
	Ramanna Garden								
	1st Main Road	1	81.00	0.60	0.40	19.44			
	cross road from 1st Main road	1	37.00	0.60	0.40	8.88			
	2nd Main road	2	128.00	0.60	0.40	61.44			
	3rd Main road	2	77.00	0.60	0.40	36.96			
	1st cross	2	151.00	0.60	0.40	72.48			
	2nd cross	1	150.00	0.60	0.40	36.00			
	3rd cross	2	136.00	0.60	0.45	73.44			
	cross road from 3rd cross	2	18.00	0.60	0.40	8.64			
	Main Road from 1st cross	1	9.00	0.60	0.40	2.16			
	For RCC Drain								
	1st Main Road	1	30.00	1.10	1.00	33.00			
	3rd Main road	1	6.00	1.10	1.00	6.60			
	1st cross	1	7.00	1.10	1.00	7.70			
	3rd cross	1	31.70	1.10	1.00	34.87			
	For RCC Culvert								
	Culvert at 1st cross	1	7.50	2.20	1.20	19.80			
	Culvert at 2nd cross	1	6.90	2.20	1.20	18.22			
	Culvert at 3rd cross	1	7.40	2.20	1.20	19.54			
	For SSM Culvert								
	Culvert at 3rd cross	1	8.30	2.20	1.20	21.91			
		1	7.40	2.20	1.20	19.54			
	Culvert at 3rd Main road	1	8.40	2.20	1.20	22.18			
			Total Modified Qty			**522.79**			
			Total Scheduled-B Qty			**498.00**			
			Qty Upto 125%			**522.79**	**Cum**	**256.05**	**133859.36**
2	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P.No-13,I No-4.3, PWD SR 2018-19)**								
	Ramanna Garden								
	Bottom concrete for Damage Portion								
	1st Main Road	1	81.00	0.60	0.15	7.29			
	cross road from 1st Main road	1	37.00	0.60	0.10	2.22			
	For RCC Drain								
	1st Main Road	1	30.00	1.10	0.15	4.95			
	3rd Main road	1	6.00	1.00	0.15	0.90			
	1st cross	1	7.00	1.00	0.15	1.05			
	3rd cross	1	31.70	1.10	0.15	5.23			
	For RCC Culvert								
	Culvert at 1st cross	1	7.50	2.20	0.15	2.48			
	Culvert at 2nd cross	1	6.90	2.20	0.15	2.28			
	Culvert at 3rd cross	1	7.40	2.20	0.15	2.44			
	For SSM Culvert								
	Culvert at 3rd cross	1	8.30	2.20	0.15	2.74			
		1	7.40	2.20	0.15	2.44			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culvert at 3rd Main road	1	8.40	2.20	0.15	2.77			
			Total Modified Qty			36.79			
			Total Scheduled-B Qty			32.10			
			Qty Upto 125%			36.79	Cum	5677.99	208879.06
3	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation ,Column Footing,main and Secondary Beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **(I No-4.48,P No-18 PWD SR 2018-19)**								
	Ramanna Garden								
	For Bottom Raft								
	For RCC Drain								
	1st Main Road	1	30.00	0.90	0.15	4.05			
	3rd Main road	1	6.00	0.90	0.15	0.81			
	1st cross	1	7.00	0.90	0.15	0.95			
	3rd cross	1	31.70	0.90	0.15	4.28			
	For RCC Culvert								
	Culvert at 1st cross	1	7.50	1.90	0.15	2.14			
	Culvert at 2nd cross	1	6.90	1.90	0.15	1.97			
	Culvert at 3rd cross	1	7.40	1.90	0.15	2.11			
	For SSM Culvert (Vent Portion)								
	Culvert at 3rd cross	1	8.30	0.60	0.15	0.75			
		1	7.40	0.60	0.15	0.67			
	Culvert at 3rd Main road	1	8.40	0.60	0.15	0.76			
	For Wall								
	For RCC Drain								
	1st Main Road	2	30.00	0.15	0.70	6.30			
	3rd Main road	2	6.00	0.15	0.60	1.08			
	1st cross	2	7.00	0.15	0.70	1.47			
	3rd cross	2	31.70	0.15	0.70	6.66			
	For RCC Culvert								
	Culvert at 1st cross	2	7.50	0.40	0.75	4.50			
	Culvert at 2nd cross	2	6.90	0.40	0.75	4.14			
	Culvert at 3rd cross	2	7.40	0.40	0.75	4.44			
	Bottom concrete for Damage Portion								
	2nd Main road	2	128.00	0.60	0.15	23.04			
	3rd Main road	2	77.00	0.60	0.15	13.86			
	1st cross	2	151.00	0.60	0.15	27.18			
	2nd cross	1	150.00	0.60	0.15	13.50			
	3rd cross	2	136.00	0.60	0.15	24.48			
	cross road from 3rd cross	2	18.00	0.60	0.15	3.24			
	Main Road from 1st cross	1	9.00	0.60	0.15	0.81			
	concrete for Damaged Side Wall								
	1st Main Road	2	81.00	0.15	0.25	6.08			
	cross road from 1st Main road	2	37.00	0.15	0.25	2.78			
	2nd Main road	4	128.00	0.15	0.30	23.04			
	3rd Main road	4	77.00	0.15	0.30	13.86			
	1st cross	4	151.00	0.15	0.25	22.65			
	2nd cross	2	150.00	0.15	0.25	11.25			
	3rd cross	4	136.00	0.15	0.25	20.40			
	cross road from 3rd cross	4	18.00	0.15	0.20	2.16			
	Main Road from 1st cross	2	9.00	0.15	0.20	0.54			
			Total Modified Qty			255.91			
			Total Scheduled-B Qty			279.57			
			Qty Upto 125%			255.91	Cum	6058.59	1550474.97

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 **(I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 60kg/Cum for drain	1	25.30	60.00		1518.00			
	Consider 90kg/Cum for Culvert	1	19.29	90.00		1736.37			
						3254.37	**Kg**		
			Total Modified Qty			**3.25**	**Tonne**		
			Total Scheduled-B Qty			**4.06**			
			Qty Upto 125%			**3.25**	**Tonne**	**78977.64**	**257022.46**
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2**(I No-4.31, P No-16,PWD SR 2018-19)**								
	Ramanna Garden								
	For Wall								
	For RCC Drain								
	1st Main Road	4	30.00		0.70	84.00			
	3rd Main road	4	6.00		0.60	14.40			
	1st cross	4	7.00		0.70	19.60			
	3rd cross	4	31.70		0.70	88.76			
	For RCC Culvert								
	Culvert at 1st cross	4	7.50		0.75	22.50			
	Culvert at 2nd cross	4	6.90		0.75	20.70			
	Culvert at 3rd cross	4	7.40		0.75	22.20			
	concrete for Damaged Side Wall								
	1st Main Road	4	81.00		0.25	81.00			
	cross road from 1st Main road	4	37.00		0.25	37.00			
	2nd Main road	8	128.00		0.30	307.20			
	3rd Main road	8	77.00		0.30	184.80			
	1st cross	8	151.00		0.25	302.00			
	2nd cross	4	18.00		0.25	18.00			
			Total Modified Qty			**1202.16**			
			Total Scheduled-B Qty			**964.60**			
			Qty Upto 125%			**1202.16**	**Sqm**	**398.42**	**478964.59**
6	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. **(Page No.27/ Item No.5.31.1/ PWD SR 2018-19)**								
	Ramanna Garden								
	1st Main Road	1	81.00	0.90		72.90			
	cross road from 1st Main road	1	37.00	0.90		33.30			
	2nd Main road	2	110.00	0.90		198.00			
	3rd Main road	2	68.00	0.90		122.40			
	1st cross	2	140.00	0.90		252.00			
	2nd cross	1	150.00	0.90		135.00			
	3rd cross	2	136.00	0.90		244.80			
	cross road from 3rd cross	2	18.00	0.90		32.40			
	Main Road from 1st cross	1	9.00	0.90		8.10			
	For RCC Drain								
	1st Main Road	1	30.00	0.90		27.00			
	3rd Main road	1	6.00	0.90		5.40			
	1st cross	1	7.00	0.90		6.30			
	3rd cross	1	31.70	0.90		28.53			
			Total Modified Qty			**1166.13**			
			Total Scheduled-B Qty			**1126.80**			
			Qty Upto 125%			**1166.13**	**Sqm**	**779.03**	**908450.25**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13**(Page No.26/ Item No.5.22/ PWD SR 2018-19)**								
	Ramanna Garden								
	1st Main Road	135	3.00			405.00			
	cross road from 1st Main road	62	3.00			186.00			
	2nd Main road	360	3.00			1080.00			
	3rd Main road	220	3.00			660.00			
	1st cross	467	3.00			1401.00			
	2nd cross	250	3.00			750.00			
	3rd cross	454	3.00			1362.00			
	cross road from 3rd cross	60	3.00			180.00			
	Main Road from 1st cross	15	3.00			45.00			
	For RCC Drain								
	1st Main Road	50	3.00			150.00			
	3rd Main road	10	3.00			30.00			
	1st cross	12	3.00			36.00			
	3rd cross	53	3.00			159.00			
			Total Modified Qty			**6444.00**			
			Total Scheduled-B Qty			**6260.00**			
			Qty Upto 125%			**6444.00**	**Mtr**	**64.55**	**415960.20**
8	Providing precast slab of 250mm thick, including of all materials, labour,curing, transportation, lading unloaading, etc. Complete as per the direction of engineer in charge (Data rate Approved) **(Data Rate)**								
	For RCC Culvert								
	Culvert at 1st cross	12	1.80	0.60		12.96			
	Culvert at 2nd cross	11	1.80	0.60		11.88			
	Culvert at 3rd cross	12	1.80	0.60		12.96			
	For SSM Culvert								
	Culvert at 3rd cross	13	1.80	0.60		14.04			
		12	1.80	0.60		12.96			
	Culvert at 3rd Main road	14	1.80	0.60		15.12			
			Total Modified Qty			**79.92**			
			Total Scheduled-B Qty			**54.00**			
			Qty Upto 125%			**67.50**	**Sqm**	**5688.36**	**383964.30**
			Qty Above 125%			**12.42**	**Sqm**	**5688.36**	**70649.43**
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P. No. 13/ I. No.4.6 of CSR 2018-19)**								
	Desilt								
	Ramanna Garden								
	1st Main Road	1	14.50	0.25	0.15	0.54			
	cross road from 1st Main road	1	37.00	0.25	0.15	1.39			
	2nd Main road	2	128.00	0.20	0.15	7.68			
	3rd Main road	2	77.00	0.25	0.15	5.78			
	1st cross	2	151.00	0.25	0.15	11.33			
	2nd cross	1	150.00	0.25	0.15	5.63			
	3rd cross	2	136.00	0.25	0.15	10.20			
	cross road from 3rd cross	2	18.00	0.25	0.15	1.35			
	Main Road from 1st cross	1	9.00	0.25	0.15	0.34			
	For RCC Drain								
	1st Main Road	1	30.00	0.20	0.15	0.90			
	3rd Main road	1	6.00	0.20	0.15	0.18			
	1st cross	1	7.00	0.20	0.15	0.21			
	3rd cross	1	31.70	0.20	0.15	0.95			
	For RCC Culvert								
	Culvert at 1st cross	2	7.50	0.75	0.15	1.69			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culvert at 2nd cross	2	6.90	0.75	0.15	1.55			
	Culvert at 3rd cross	2	7.40	0.75	0.15	1.67			
	For SSM Culvert								
	Culvert at 3rd cross	2	8.30	0.75	0.15	1.87			
		2	7.40	0.75	0.15	1.67			
	Culvert at 3rd Main road	2	8.40	0.75	0.15	1.89			
	Bed Concrete for Kerb								
	1st Main Road	1	194.00	0.20	0.10	3.88			
			Total Modified Qty			**60.67**			
			Total Scheduled-B Qty			**59.74**			
			Qty Upto 125%			**60.67**	**Cum**	**6034.11**	**366103.03**
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **(Page No.27/ Item No.5.30/ PWD SR 2018-19)**								
	Desilt								
	Ramanna Garden								
	1st Main Road	1	194.00			194.00			
	3rd Main road	1	51.60			51.60			
	1st cross	1	217.10			217.10			
	2nd cross	1	92.20			92.20			
	3rd cross	1	175.30			175.30			
						730.20	**Mtr**		
	No of kerbs=(730.20/0.45)=1622 No's		**Total Modified Qty**			**1622**	**No's**		
			Total Scheduled-B Qty			**2004**			
			Qty Upto 125%			**1622**	**No's**	**454.06**	**736485.32**
11	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **(Page No.124/ Item No.15.80/ PWD SR 2018-19)**								
	For Kerb Painting								
	Ramanna Garden								
	1st Main Road	1	194.00		0.45	87.30			
	3rd Main road	1	51.60		0.45	23.22			
	1st cross	1	217.10		0.45	97.70			
	2nd cross	1	92.20		0.45	41.49			
	3rd cross	1	175.30		0.45	78.89			
			Total Modified Qty			**328.59**			
			Total Scheduled-B Qty			**405.90**			
			Qty Upto 125%			**328.59**	**Sqm**	**41.18**	**13531.34**
12	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**(Page No.122/ Item No.15.81/ PWD SR 2018-19)**								
	For Kerb Painting								
			Qty Same as per item No.11			328.59			
			Total Modified Qty			**328.59**			
			Total Scheduled-B Qty			**405.90**			
			Qty Upto 125%			**328.59**	**Sqm**	**94.60**	**31084.61**
	EXTRA ITEM								
E-1	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page No.253, Item No.34.8.2)**								
	For SSM Culvert								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culvert at 3rd cross	2	8.30	0.45	0.60	4.48			
		2	7.40	0.45	0.60	4.00			
	Culvert at 3rd Main road	2	8.40	0.45	0.60	4.54			
						13.01	**Cum**	**5114.86**	**66564.80**
								Total Construction Cost	**5621993.72**
								GST Charges 12%	**674639.25**
								GRAND TOTAL	**6296632.96**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer
Ward No.10

Asst. Executive Engineer,
Vidyaranya Pura Sub division

Executive Engineer,
Byatarayana Pura Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Technical Sanction
Accorded For Rs.6296632.96
Head of A/C...13601.....
CER NO :.....35..... Dt:22.10.2020

CE (West)